## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 14 April 2005 (14.04.2005)

**PCT** 

## (10) International Publication Number WO 2005/034025 A1

- (51) International Patent Classification<sup>7</sup>: G06K 9/62, 9/72
- (21) International Application Number:

PCT/SG2003/000239

- (22) International Filing Date: 8 October 2003 (08.10.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): XID TECHNOLOGIES PTE LTD [SG/SG]; 15 Queen Street, #04-09, Tan Chong Tower, Singapore 188537 (SG).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MARIANI, Roberto [FR/SG]; 112 Towner Road, Townerville 327809 (SG). XU, Han [CN/SG]; Blk 48A, #11-123, Dorset Road 211048 (SG). ZHANG, Yuanxin [CN/SG]; 5 Simei Street 3, #08-15 Tower 3B, East Point Green 529892 (SG).
- (74) Agent: ELLA CHEONG MIRANDAH & SPRUSONS PTE LTD; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Declaration under Rule 4.17:

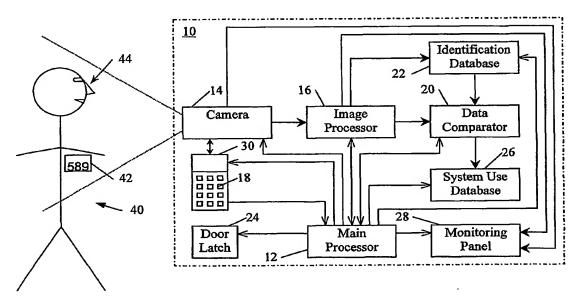
of inventorship (Rule 4.17(iv)) for US only

## Published:

with international search report

[Continued on next page]

(54) Title: INDIVIDUAL IDENTITY AUTHENTICATION SYSTEMS



(57) Abstract: A single image from a camera (14) is captured of an individual (40) seeking entry through a door held by a door latch (24). An image processor (16) looks for and locates a tag (42) worn by the individual (40) in the image and reads an identification (ID) code from the tag (42). A comparator (20) compares this ID code with ID codes in an identification database (22) to find a match. Once a match of ID codes is found, the image processor (16) looks for and locates a face (44) of the individual (40) in the image and extracts facial features from the face (44). The comparator (20) compares the extracted facial features with facial features associated with the matched ID code, from the identification database (22), to find a match. Once there is a match of facial features, the door latch (24) is released.





For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.